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SPECIFICATION FOR SERRATED BARS FOR MECHANICAL WARP STOP MOTIONS

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SPECIFICATION FOR SERRATED BARS FOR MECHANICAL WARP STOP MOTIONS

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Indian Standard

SPECIFICATION FOR SERRATED BARS FOR MECHANICAL WARP STOP MOTIONS

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 11 October 1982, after the draft finalized by the Cotton Weaving Machinery Components Sectional Committee had been approved by the Textile Division Council.

0.2 This standard has been prepared with a view to eliminating ambiguity and confusion arising from local interpretations of terms relating to serrated bars for mechanical warp stop motions.

0.3 This standard is based on ISO 1865-1977 'Serrated bars for mechanical warp stop motions — Designations of dimensions, and dimensions of cross-section' issued by the International Organization for Standardization (ISO).

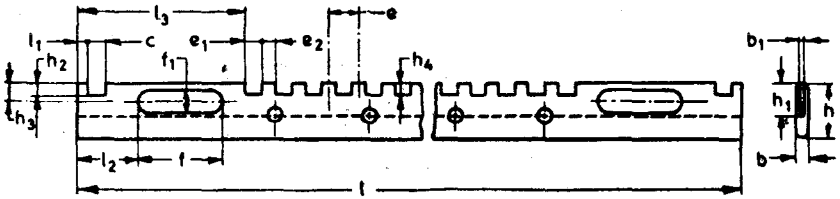
1. SCOPE

1.1 This standard gives the designation of dimensions of serrated bars for mechanical warp stop motions. It also prescribes the dimensions of cross-section of assembled serrated bars.

2. DESIGNATION OF DIMENSIONS

2.1 Serrated Bars with Locating Cut-Out Placed Between End of Bar and Slot for Drive

2.1.1 *Outer Serrated Fixed Bar* — The designation of various dimensions of outer serrated fixed bar shall be shown in Fig. 1.

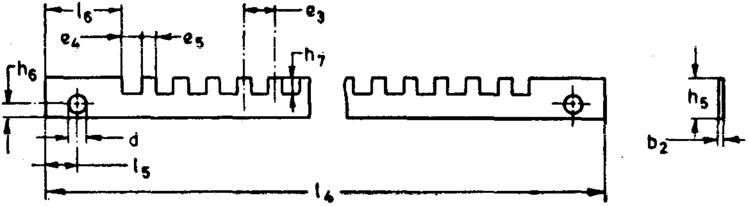


l — Overall length
l_1 — Distance from end of bar to cut-out
l_2 — Distance from end of bar to slot
l_3 — Distance from end of bar to nearest edge of first serration
h — Height
h_1 — Depth of groove
h_2 — Depth of cut-out
h_3 — Distance from upper edge of bar to centre of slot

h_4 — Depth of serration
b — Thickness
b_1 — Width of groove
c — Width of cut-out
e — Pitch of serrations
e_1 — Width of serration
e_2 — Distance between serrations
f — Length of slot
f_1 — Width of slot

Fig. 1 Outer Serrated Fixed Bar

2.1.2 *Inner Serrated Movable Bar* — The designation of various dimensions of movable bar shall be as shown in Fig. 2.

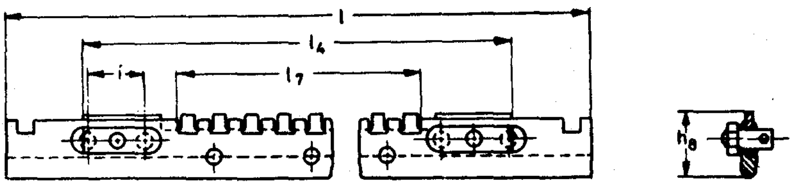


l_4 — Overall length
l_5 — Distance from end of bar to centre of drive hole
l_6 — Distance from end of bar to nearest edge of first serration
h_5 — Height
h_6 — Distance from lower edge of bar to centre of hole

h_7 — Depth of serration
b_2 — Thickness
e_3 — Pitch of serrations
e_4 — Width of serration
e_5 — Distance between serrations
d — Diameter of drive hole

Fig. 2 Inner Serrated Movable Bar

2.1.3 The designation of various dimensions of combination of outer and inner serrated bars shall be as shown in Fig. 3.

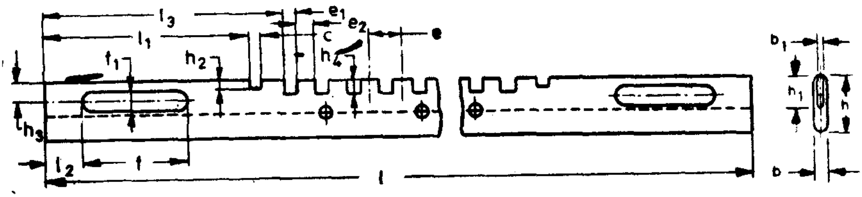


i — Traverse of inner serrated movable bar
l — Overall length of outer serrated fixed bar
l_4 — Overall length of inner serrated movable bar
l_7 — Working width
h_8 — Overall height

FIG. 3 COMBINATION OF OUTER AND INNER SERRATED BARS

2.2 Serrated Bars with Locating Cut-Out Placed Between Slot for Drive and First Serration

2.2.1 *Outer Serrated Fixed Bar* — The designation of various dimensions of outer serrated fixed bar shall be as shown in Fig. 4.

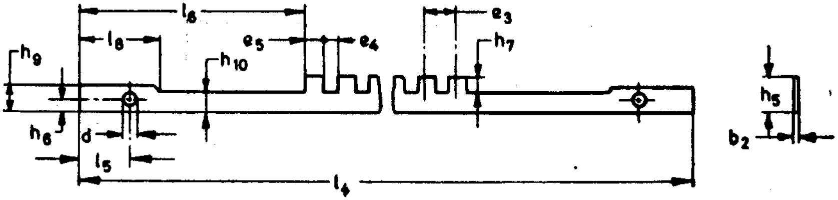


l — Overall length
l_1 — Distance from end of bar to cut-out
l_2 — Distance from end of bar to slot
l_3 — Distance from end of bar to nearest edge of first serration
h — Height
h_1 — Depth of groove
h_2 — Depth of cut-out
h_3 — Distance from upper edge of bar to centre of slot
h_4 — Depth of serration

b — Thickness
b_1 — Width of groove
e — Width of cut-out or diameter of hole
e — Pitch of serrations
e_1 — Width of serration
e_2 — Distance between serrations
f — Length of slot
f_1 — Width of slot

FIG. 4 OUTER SERRATED FIXED BAR

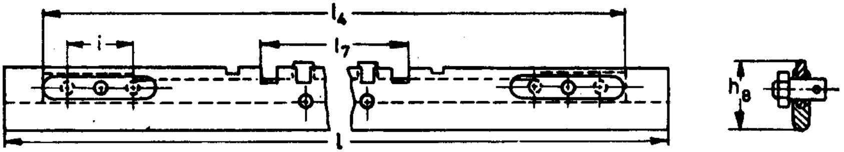
2.2.2 *Inner Serrated Movable Bar* — The designation of various dimensions of inner serrated movable bar shall be as shown in Fig. 5.



l_4 — Overall length
l_5 — Distance from end of bar to centre of drive hole
l_6 — Distance from end of bar to nearest edge of first serration
l_8 — Distance from end of bar to shoulder
h_5 — Overall height
h_6 — Distance from lower edge of bar to centre of drive hole
h_7 — Depth of serration
h_9 — Height of bar at ends
h_{10} — Height from bottom of bar to bottom of serrations
b_2 — Thickness
e_3 — Pitch of serrations
e_4 — Width of serration
e_5 — Distance between serrations
d — Diameter of drive hole

FIG. 5 INNER SERRATED MOVABLE BAR

2.2.3 The designation of various dimensions of combination of outer and inner serrated bars shall be as shown in Fig. 6.

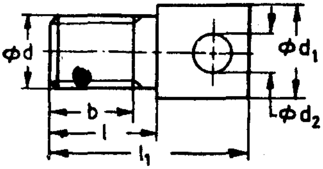


i — Traverse of inner serrated movable bar
l — Overall length of outer serrated fixed bar
l_4 — Overall length of outer serrated movable bar
l_7 — Working width
h_8 — Overall height

FIG. 6 COMBINATION OF OUTER AND INNER SERRATED BARS

2.3 Driving Bolt with Nut

2.3.1 *Driving Bolt* — The designation of various dimensions of driving bolt shall be as shown in Fig. 7.

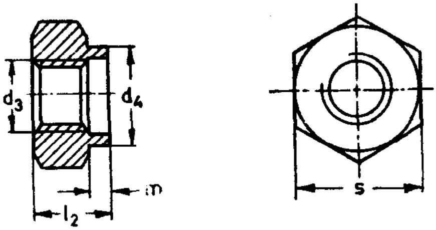


d — Size of thread
d_1 — Diameter of head
d_2 — Hole diameter

b — Length of thread
l — Length of shank
l_1 — Overall length

Fig. 7 Driving Bolt

2.3.2 *Nut* — The designation of various dimensions of nut shall be as shown in Fig. 8.



d_3 — Thread diameter
m — Collar length
l_3 — Overall length

s — Width across flats
d_4 — Outside diameter of collar

Fig. 8 Nut

3. DIMENSIONS

3.1 The dimensions of cross-section of assembled serrated bars shall be in accordance with the requirements of Table 1 read with Fig. 9.

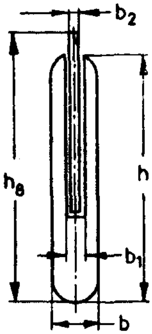


Fig. 9 Cross-Section of Assembled Bars

TABLE 1 DIMENSIONS OF CROSS SECTION OF ASSEMBLED SERRATED BARS

(*Clause* 3.1 and *Fig.* 9)

All dimensions in millimetres.

	b	b_1		b_2	h*	*h*8
	4	1·25	1·5	0·8	22	24
Tolerance	+ 0 − 0·1	± 0·05	± 0·1	± 0·05	—	+ 0 − 0·05

*Nominal.

4. MARKING

4.1 Serrated bars shall be marked with the manufacturer's name, initials or trade-mark, if any.